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Owner's Manual

OMNISMART™

Full Isolation UPS Systems

- Full Isolation (Less than 300 μ A Leakage)
- Line-Interactive Operation
- 120V Input

Not suitable for mobile applications.



Tested To Comply With FCC Standards

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SAVE THESE INSTRUCTIONS

This manual contains instructions and warnings that should be followed during the installation, operation and storage of all Tripp Lite UPS Systems. Failure to heed these warnings will void your warranty.

UPS Location Warnings

- Install your UPS indoors, away from excess moisture or heat, dust or direct sunlight.
- For best performance, keep the indoor temperature between between 32° F and 104° F (0° C and 40° C).
- Leave adequate space around all sides of the UPS for proper ventilation.

UPS Connection Warnings

- Connect your UPS directly to a properly grounded AC power outlet. Do not plug the UPS into itself; this will damage the UPS.
- Do not modify the UPS's plug, and do not use an adapter that would eliminate the UPS's ground connection.
- Do not use extension cords to connect the UPS to an AC outlet. Your warranty will be voided if anything other than Tripp Lite surge suppressors are used to connect your UPS to an outlet.
- If the UPS receives power from a motor-powered AC generator, the generator must provide clean, filtered, computer-grade output.

Equipment Connection Warnings

- Do not use Tripp Lite UPS Systems for life-support appliances in which a malfunction or failure of a Tripp Lite UPS System could cause failure or significantly alter the performance of a life-support device.
- Do not connect surge suppressors or extension cords to the output of your UPS. This may damage the UPS and will void the surge suppressor and UPS warranties.

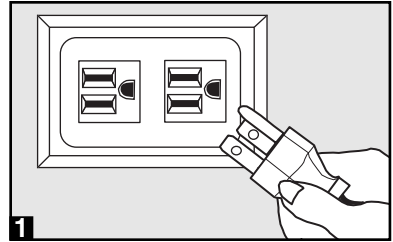
Battery Warnings

- Your UPS does not require routine maintenance. Do not open your UPS for any reason. There are no user-serviceable parts inside.
- Batteries can present a risk of electrical shock and burn from high short-circuit current. Observe proper precautions. Do not dispose of the batteries in a fire. Do not open the UPS or batteries. Do not short or bridge the battery terminals with any object. Unplug and turn off the UPS before performing battery replacement. Use tools with insulated handles. There are no user-serviceable parts inside the UPS. Battery replacement should be performed only by authorized service personnel using the same number and type of batteries (Sealed Lead-Acid). The batteries are recyclable. Refer to your local codes for disposal requirements or in the USA only call 1-800-SAV-LEAD or 1-800-8-BATTERY (1-800-822-8837) or visit www.rbrc.com for recycling information. Tripp Lite offers a complete line of UPS System Replacement Battery Cartridges (R.B.C.). Visit Tripp Lite on the Web at www.tripplite.com/support/battery/index.cfm to locate the specific replacement battery for your UPS.
- Do not attempt to add external batteries.

Quick Installation

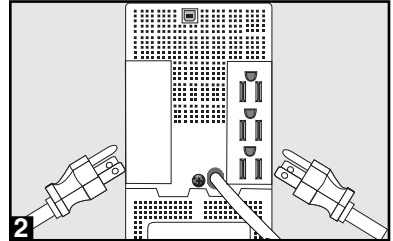
1 Connect your UPS to an electrical outlet.

Your UPS will run a self-test after it is plugged in. See Basic Operation to understand the results of its self-test.





2 Plug your computer, monitor and other equipment into the UPS system.

Your UPS is designed to support only computer equipment. You will overload your UPS if you connect high power draw equipment such as household appliances or laser printers to outlets providing UPS battery backup. Select models feature special outlets (clearly labeled on the rear panel) which provide surge-only (not battery backup) protection designed for laser printers and other heavy-draw devices.



Model Shown: OMNI500ISO

3 Select UPS Operating Mode.*

Press the **ON/OFF** button to toggle your UPS between the **UPS** (“” LED lit) and the **CHARGE ONLY** (“” LED flashing) modes. Choose the operating mode based on your location:

USA, Canada & Western Europe:

- Leave the UPS in the **UPS** mode at all times.

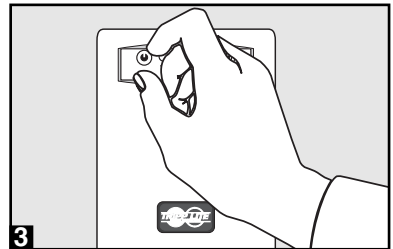
All other countries:

- Put the UPS in the **CHARGE ONLY** mode when you are not using connected equipment.

(WARNING! When set to “CHARGE ONLY,” the UPS will not provide battery backup during a blackout or brownout)

- Put the UPS in the **UPS** mode when you are using connected equipment.

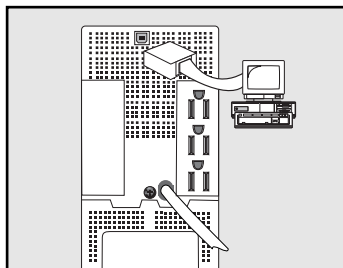
**See Basic Operation section for a complete explanation of each mode.*



Quick Installation *optional*

USB Communication Port

This port can connect your UPS to any computer for automatic file saves and unattended shutdown in the event of a power failure. Use with Tripp Lite's PowerAlert Software and appropriate USB cable. A PowerAlert CD and USB cable may be included with your UPS; if so, insert the CD into the CD tray of your computer and follow the installation instructions. If PowerAlert Software and a USB cable did not come with your UPS, you can obtain the software FREE via the Web at www.tripplite.com. Any user-supplied USB cable may then be used to connect your UPS to your computer. NOTE: This connection is optional. The UPS will work properly without this connection.



Model Shown: OMNI500ISO


Basic Operation


Buttons


Use the **ON/OFF** button to do three things:



Switch your UPS's Operating Mode: While your UPS is plugged into a live AC outlet, press the **ON/OFF** button and hold it until you hear a beep (about 2 seconds) to toggle between the following operating modes. Choose your UPS's operating mode based on the regional guidelines in Step 3 of the Quick Installation section.

- **UPS Mode:** ENABLES battery backup. **UPS Conditions:** The UPS charges its battery and supplies power at its receptacles when it is receiving utility line power. If utility power fails, the UPS provides power from its batteries. The “” indicator light is lit. **Setting Advantages:** Provides battery backup during blackouts or brownouts.

- **CHARGE ONLY Mode:** DISABLES battery backup. **UPS Conditions:** The UPS charges its battery and supplies power at its receptacles when it is receiving utility line power. The “” indicator light is flashing. **Setting Advantages:** Continues to charge the battery when power is present while turning OFF the inverter to prevent battery depletion during power outages when equipment is not in use.

Cold-Start Your UPS: You may “cold start” your UPS and use it as a stand-alone power source when utility power is not present, providing that the UPS battery is charged. To “cold start” your UPS, press and hold the **ON/OFF** button until you hear a beep (about 2 seconds), then release it. The “” indicator light will illuminate and AC power inverted from stored battery power will be provided at its receptacles.



Shut Down Your UPS: Press and hold the **ON/OFF** button when AC line power is absent (i.e. during a blackout, or when the UPS is unplugged) to deactivate your UPS.

Use the **MUTE/TEST** button to do two things:



Silence the UPS On-Battery Alarm: Press and hold this button to silence the UPS On-Battery alarm, a series of short beeps followed by a brief pause that is activated when the UPS is providing AC power from battery. Note: When the battery is nearly depleted, the Low Battery alarm—a continuous beep that cannot be silenced—will alert you to immediately shut down connected equipment.

Run a Self-Test: Your UPS performs a self-test whenever it is first plugged in. To have it run a self-test at another time, leave your connected equipment on. With your UPS plugged in and in the **UPS** mode, press and hold this button until you hear a beep (about 2 seconds) then release it.

Results of a Self-Test: All the LEDs* will be lit and the UPS will emit several short beeps as it momentarily switches to battery to test its charge and load capacity. The test will last at most 10 seconds. If the inverter is overloaded, the “” LED (on select models) will stay lit and the UPS will continue to beep after the test; if this happens, remove some of the load and run the self-test again. If the batteries seem weak, the “” LED will stay lit and the UPS will continue to beep after the test; if this happens, let UPS charge its batteries for 12 hours and repeat the test. If the condition persists, contact Tripp Lite for service. **CAUTION:** Do not unplug your UPS to test its batteries. This will remove safe electrical grounding and may introduce a damaging surge into your network connections.

* Depending on the condition of the incoming voltage the “VOLTAGE REGULATION” LED may or may not be lit.

Basic Operation *continued*

Indicator Lights

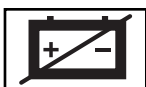
All Indicator Light descriptions apply when the UPS is plugged into an AC outlet and turned on.



LINE POWER: This green light will turn ON whenever your UPS is receiving normal AC line power. It will flash while the UPS is in **CHARGE ONLY** mode to indicate that the UPS will not provide battery backup during a blackout or brownout.



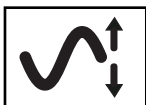
BATTERY POWER: This yellow light will turn ON when your UPS is providing your equipment with battery power.



BATTERY CHARGE: This red light will turn ON continuously after the UPS runs a self-test to indicate that the UPS's battery is weakly charged. If it remains lit after you have allowed the UPS to charge for twelve hours and have run a second self-test, contact Tripp Lite for service.

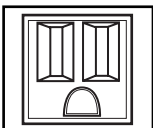


OVERLOAD (Select models only): This red light will turn ON continuously when the UPS is providing power from battery or after the UPS runs a self-test to indicate that the UPS's inverter is overloaded. If it lights up, immediately remove some of the equipment connected to the UPS and run a self-test. Large overloads may cause your UPS to shut down.



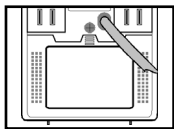
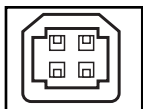
VOLTAGE REGULATION (Select models only): This light will turn ON when your UPS is automatically correcting high or low utility line voltage. The UPS will also click gently when this automatic voltage regulation is operating. These are both normal functions of your UPS, and no action is required on your part.

Other UPS Features



AC Receptacles: "UPS/Surge" receptacles are used to provide your connected equipment with AC line power during normal operation and battery power during blackouts and brownouts. They also protect your equipment against damaging surges and line noise. "Surge-only" receptacles (identified on the back of select UPS models) are used to provide peripherals with surge protection without committing precious battery power to support them during blackouts.

Basic Operation *continued*



USB Port: The USB port connects your UPS to any USB workstation or server. Using this port, your UPS can communicate line-fail and low-battery status to your computer. Use with Tripp Lite software and any USB cable to automatically save open files and shut down equipment during a blackout. Contact Tripp Lite Customer Support or consult your power protection software manual for more information.

Battery Replacement Door: Under normal conditions, the original battery in your UPS will last several years. Battery replacement should be performed only by qualified service personnel. Refer to "Battery Warnings" in the Safety section. Should your UPS require battery replacement, visit Tripp Lite on the Web at www.tripplite.com/support/battery/index.cfm to locate the specific replacement battery for your UPS.

Power Sensitivity/Lowline Adjustment (select models only): This dial is normally set fully counterclockwise, which enables the UPS to protect against waveform distortions in its AC input. When such distortion occurs, the UPS will normally switch to providing PWM sinewave power from its battery reserves for as long as the distortion is present. In some areas with poor utility power or where the UPS's input power comes from a backup generator, frequent brownouts and/or chronic waveform distortion could cause the UPS to switch to battery too often, draining its battery reserves. You may be able to reduce how often your UPS switches to battery due to waveform distortion or brownouts by experimenting with different settings for this dial. As the dial is turned clockwise, the UPS becomes more tolerant of variations in its input power's AC waveform and reduces the voltage point at which it switches to battery. NOTE: The further the dial is adjusted clockwise, the greater the degree of waveform distortion and the lower the input voltage the UPS will allow to pass to connected equipment. When experimenting with different settings for this dial, operate connected equipment in a safe test mode so that the effect on the equipment of any waveform distortions in the UPS's output can be evaluated without disrupting critical operations. The experiment should last long enough to assure that all expected line conditions are encountered.

Automatic Voltage Regulation: During brownouts, your UPS will automatically correct low AC line voltage. When automatic voltage regulation is operating, your UPS may be heard to click gently. This is a normal, automatic operation of your UPS, and no action is required on your part.

Storage & Service

Storage

All connected equipment should be turned off, then disconnected from the UPS to avoid battery drain. Unplug your UPS from its AC receptacle, then press and hold its ON/OFF button to deactivate it. Your UPS is now ready for storage. If you plan on storing your UPS for an extended period of time, fully recharge the UPS batteries once every three months by plugging the UPS into a live AC outlet and letting the UPS charge for 4 to 6 hours. If you leave your UPS batteries discharged for an extended period of time, they will suffer a permanent loss of capacity.

Service

If returning your UPS for service, contact your local Tripp Lite dealer or distributor. They will refer you to a service center. Please carefully pack the UPS using the ORIGINAL PACKING MATERIAL that came with the unit. Enclose a letter describing the symptoms of the problem. If the UPS is within the warranty period, enclose a copy of your sales receipt.

Warranty Registration

Visit www.tripplite.com/warranty today to register the warranty for your new Tripp Lite product. You'll be automatically entered into a drawing for a chance to win a FREE Tripp Lite product!*

* No purchase necessary. Void where prohibited. Some restrictions apply. See website for details.

FCC RADIO/TV INTERFERENCE NOTICE: (FOR CLASS A MODELS)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. Operation of this equipment is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. The user must use shielded cables and connectors with this product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RADIO/TV INTERFERENCE NOTICE: (FOR CLASS B MODELS)

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference using one or more of the following measures: reorient or relocate the receiving antenna; increase the separation between the equipment and the receiver; connect the equipment into an outlet on a circuit different from that which the receiver is connected; consult the dealer or an experienced radio/television technician for help. The user must use shielded cables and connectors with this product. Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC rules. Operation is subject to the following 2 conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC PART 68 NOTICE (UNITED STATES ONLY)

If your Modem/Fax Protection causes harm to the telephone network, the telephone company may temporarily discontinue your service. If possible, they will notify you in advance. If advance notice isn't practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper operation of your equipment. If it does, you will be given advance notice to give you an opportunity to maintain uninterrupted service. If you experience trouble with this equipment's Modem/Fax Protection, please call Tripp Lite Technical Support at (773) 869-1234 for repair/warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure the equipment is not malfunctioning. There are no repairs that can be made by the customer to the Modem/Fax Protection. This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or corporation commission for information.)

EQUIPMENT ATTACHMENT LIMITATIONS (Models with the Industry Canada label in Canada only): NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets the telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements Document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that the compliance with the above conditions might not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

REGULATORY COMPLIANCE IDENTIFICATION NUMBERS

For the purpose of regulatory compliance certifications and identification, your Tripp Lite product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marking name or model number of the product.

Tripp Lite has a policy of continuous improvement. Product specifications are subject to change without notice.

Note on Labeling

Two symbols are used on the label.

V ~ : AC Voltage

V --- : DC Voltage



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